

PI-EX-MB-AI/ 8/FLK14/PLC/KD-S1 - Basic terminal block



2835972

<https://www.phoenixcontact.com/us/products/2835972>

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Ex i motherboard to accept 8 x PI-Ex i repeater power supplies, input signal conditioners etc. (PI-EX-...), FLK pin strips for connection to S7-300 analog in cards using system cables, disconnect plug terminal blocks for the field side, assembly on NS 32, or NS 35/7.5.

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2835972       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DK1XXX        |
| GTIN                                 | 4017918909123 |
| Weight per piece (including packing) | 762 g         |
| Weight per piece (excluding packing) | 637 g         |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|              |                |
|--------------|----------------|
| Product type | Module carrier |
| Application  | Base element   |

### Electrical properties

|                       |                                  |
|-----------------------|----------------------------------|
| Nominal voltage $U_N$ | 20 V DC ... 35 V DC              |
| Nominal current $I_N$ | 60 mA (max. current consumption) |

### Supply

|                  |                            |
|------------------|----------------------------|
| Redundant supply | yes, decoupled from diodes |
|------------------|----------------------------|

### Connection data

#### Controller level

|                       |               |
|-----------------------|---------------|
| Connection method     | FLK pin strip |
| Number of connections | 2             |
| Number of positions   | 14            |

#### Field level

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm                                        |
| Screw thread                     | M3                                          |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Tightening torque                | 0.5 Nm ... 0.6 Nm                           |

### Ex data

#### Safety data

|                                      |        |
|--------------------------------------|--------|
| Max. output voltage $U_o$            | ≤ 30 V |
| Safety-related maximum voltage $U_m$ | 250 V  |

### Dimensions

|                     |                                              |
|---------------------|----------------------------------------------|
| Dimensional drawing |                                              |
| Width               | 150 mm                                       |
| Height              | 127.5 mm                                     |
| Depth               | 92 mm                                        |
| Depth NS 35/7,5     | 142.5 mm (with NS 35/7.5 coupling connector) |

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|                |                                           |
|----------------|-------------------------------------------|
| Depth NS 32    | 147.5 mm (with NS 32 coupling connector)  |
| Depth NS 35/15 | 150 mm (with NS 35/15 coupling connector) |

## Material specifications

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| Color                                  | green (RAL 6021)                              |
| Flammability rating according to UL 94 | V0                                            |
| Housing insulation material            | Polyamide PA non-reinforced, polycarbonate PC |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 75 °C |

## Approvals

### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

### ATEX

|                |                                      |
|----------------|--------------------------------------|
| Identification | ⊕ II (1) G [Ex ia Ga] IIC            |
|                | ⊕ II (1) D [Ex ia Da] IIIC           |
|                | ⊕ II 3 (1) G Ex nA [ia Ga] IIC T4 Gc |
| Certificate    | KEMA 99ATEX7296                      |
|                | PxCIF08ATEX2835325X                  |

### EAC Ex

|                |                         |
|----------------|-------------------------|
| Identification | ERC [Ex ia Ga] IIC      |
| Certificate    | RU C-DE.AB72.B.00097/19 |

## Mounting

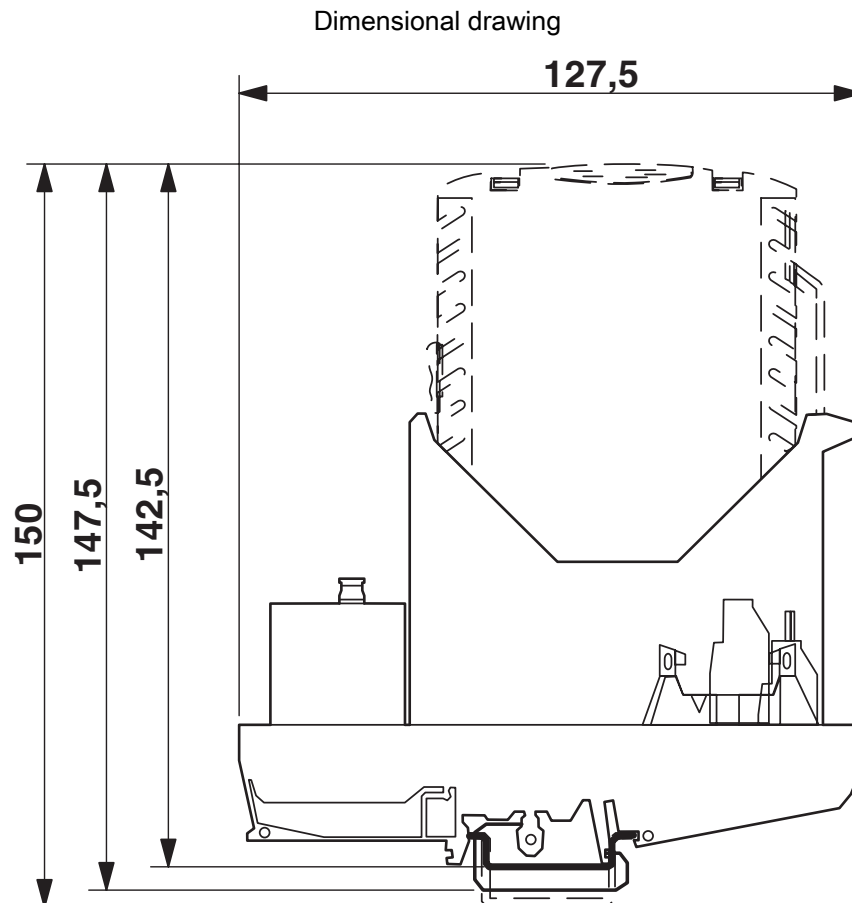
|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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## Drawings



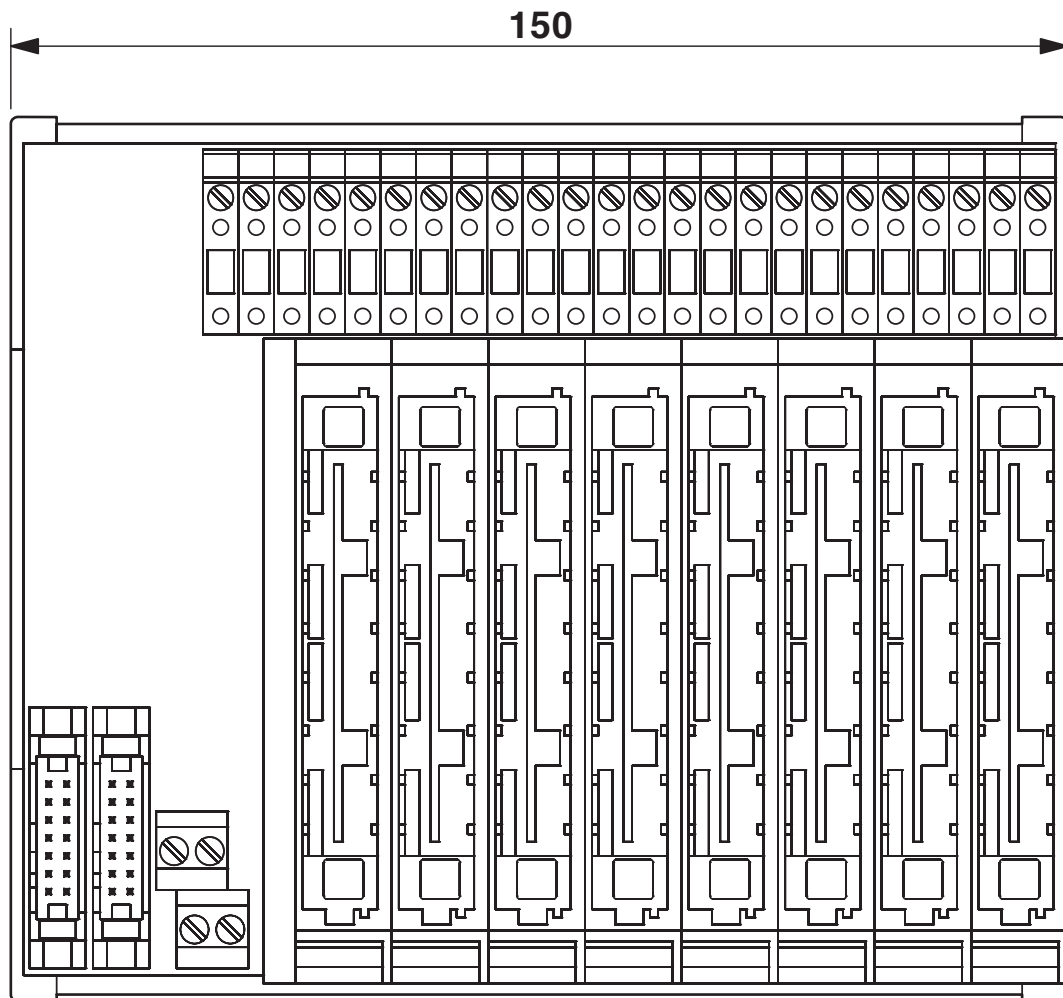
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Dimensional drawing



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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002780 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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